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Tapio Mansikkaniemi

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EXAMINER

BARQADLE, YASIN M

ART UNIT

PAPER NUMBER

2153

DATE MAILED: 08/24/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 09/725,249	Applicant(s) MANSIKKANIEMI ET AL.	
	Examiner Yasin M. Barqadle	Art Unit 2153	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 08 June 2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-19,21-23 and 25-35 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-19,21-23 and 25-35 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

Response to Amendment

1. The amendment filed on June 08, 2006 has been fully considered but are not persuasive.
 - Claims 1-19, 21-23, and 25-35 are pending.

Response to Arguments

2. In response to Applicant's arguments in page 11, first paragraph "Independent claims 1, 11, 16, 21 and 22 have been amended to recite a feature similar to the feature the unique identification (ID), distinct from network addresses of said wireless devices," as recited in claim 1. Support for this is found in the claims as filed and in the specification as filed at pg. 6, ln. 18 - pg. 7, ln. 3, which explains that the terminals include a unique identification before they are switched on, whereas a network address requires the device to be already be switched on." Examiner respectfully disagrees. The portion of "pg. 6, ln. 18 - pg. 7, ln. 3" reads, "Then each terminal includes a unique identification (ID), the IDs are reserved and used by members belonging to the same group. Each of the unique identification of the terminals is recognized in the same server 28 to be used by the members of the group. Every member belonging to respective group may use same terminal. When one or more terminals each of the terminals including a unique terminal identification is switched on, then each terminal belonging to the same group request from the global address server 36 with terminal unique identification the address of the server 28 in which the applications and services are stored and ready to be used." This portion does not show "a unique identification (ID), **distinct from network addresses of said wireless devices**", terminals include unique identification before they are switched on is not in the claims as argued. Nevertheless, nothing precludes in Hanson's devices to include network addresses before they are switched on.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claims 1, 11, 16 and 21-22 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. “wireless devices of the group each including a unique identification (ID), **distinct from network addresses of said wireless devices**”. In support of the amendment made to the above claims, the Applicant points to the specification “pg. 6, ln. 18 - pg. 7, ln. 3”. However, there is nothing in page 6 or 7 that recites “a unique identification (ID), **distinct from network addresses of said wireless devices**” as claimed.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless —

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the

United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-3, 5, 11, 16, 18, 19, 21, 22, 25-27, 32, and 33 are rejected under 35 U.S.C. 102(e) as being anticipated by Hanson et al. (U.S. Patent Number 6,496,849, hereinafter "Hanson"). Hanson discloses an electronic media for communicating information among a group of participants.

In referring to claim 1 and 11,

- A plurality of wireless devices:

Hanson, Fig. 1 shows a plurality of devices 1-4 connected to a network 5 (wireless communication)

- Said devices are wireless devices:

"[In Fig. 1] the network 5 may be any local or global computer network For example, the network 5 may be ... a wireless communications network" (Hanson, col. 5, lines 64-65)

- An access point in wireless communication with said wireless devices:

An access point is inherently implied in a wireless network (Hanson, Fig. 1)

- A server connected to said access point and configured to provide bulletin board data
Hanson, Fig. 1 shows a server 6 *"Many older P.C. e-mail clients, and all of the text e-mail clients cannot display the segment 304. These participants may receive an e-mail message with static content, and a LTRL identifying a web page at which the dynamic content may be accessed."* (Hanson, col. 10, lines 23-27)

- The server including a configurable tool "The server 6 is preferably configured to manage the dynamic content, routing, and updating of electronic forms, messages, or zaplets among the participants 1-4. The server 6 is connected to a message database 7 that is used to manage the dynamic content of zaplets in accordance with the present invention. Other data management resources may also be used." (col. 6, lines 16-23);

- Said wireless devices are connected to said server through said access point in order to obtain the bulletin board data therefrom pertaining to a group to which the wireless devices belong, each of said wireless devices having equal access to said bulletin board data: "In general, the present invention is directed to an electronic medium that can be used to communicate information to or collaborate among a group of participants connected to a network ... In this way, the content in the dynamic content region is always current when read by any of the participants using the electronic medium independent of a type of system or client associated with the participants. " (Hanson, col. 2, lines 26-38)
- Said wireless devices of the family or group, each including a unique identification (ID) reserved and used by the server to recognize said wireless devices belonging to the same group or family:
- The devices form a group: *"Fig. 1 is a simplified diagram of a sample network including participants of a group connected to the network "* (Hanson, col. 3, lines 49-50), also (a high quality of service is provided to various classes of participants based upon their e-mail client application capabilities col. 6, lines 9-23 and col. 10, lines 9-35), a unique identification (ID), distinct from network addresses of said wireless devices reserved and used by the server to recognize said wireless devices belonging to the same group the server 6 can be configured to identify the capability of a participant. For example, the server 6 can be configured to automatically send the zaplet to the participant by recognizing the suffix "aol.com" in the participant's network address. Alternatively, the participant can specify which e-mail client to use by sending a request to the server 6" (col. 10, lines 9-35. See also Hanson, col. 2, lines 54-59).
- Wireless terminals include a browser (Hanson, col. 5, lines 43-65 and col. 8, lines 37-58) including a configurable controlling functions and are configured to use the ID to indicate that the wireless device belongs to groups of wireless devices, where in operation the Ids are validated by an enabling service and the configuration tool in the server is configured manage at least some of the configurable controlling functions of the browser of the wireless device (a high quality of service is provided to various classes of participants

based upon their e-mail client application capabilities col. 6, lines 9-23 and col. 10, lines 9-35),

Wherein IDs are reserved and used by the wireless devices belonging to the family or group of wireless devices and group of the wireless devices is recognized in the server "the server 6 can be configured to identify the capability of a participant. For example, the server 6 can be configured to automatically send the zaplet to the participant by recognizing the suffix "aol.com" in the participant's network address. Alternatively, the participant can specify which e-mail client to use by sending a request to the server 6" (col. 10, lines 9-35. See also Hanson, col. 2, lines 54-59).

In referring to claim 2,

- A service provider connected to said access point for providing access to a communication network from said plurality of wireless devices.

"[In Fig. 1] the network 5 may be any local or global computer network. For example, the network 5 may be the Internet ... a wireless communications network" (Hanson, col. 5, lines 64-65), connecting to the Internet inherently implies a service provider

In referring to claim 3,

- The communication network is Internet:

"[In Fig. 1] the network 5 may be any local or global computer network For example, the network 5 may be the Internet" (Hanson, col. 5, lines 64-65)

In referring to claim 5,

- A global address server connected to said access point, the global address server configured to provide and address of said server to said wireless devices :

"[In Fig. 1] the network 5 may be any local or global computer network For example, the network 5 may be the Internet" (Hanson, col. 5, lines 64-65)

Connection to the Internet inherently implies connection to the Domain Name System (DNS), which is a global address server

In referring to claim 16,

- Providing a server containing bulletin board data:

Hanson, Fig. 1 shows a server 6 with bulletin board data 7.

- Connecting a plurality of devices to said server:

Hanson, Fig. 1 shows a plurality of devices (1, 2, 3, and 4) connected to server 6 via network 5

- Said devices are wireless devices:

Hanson, col. 5, lines 64-65 (see full quote above)

- Accessing said bulletin board data from said wireless devices:

Hanson, col. 2, lines 26-38 (see full quote to above)

- Displaying said bulletin board data In said wireless devices as notes arranged on a screen:

Hanson, Fig. 5 shows displaying the data as notes on a screen 200

- Said wireless devices contain the address of a global address server, said wireless devices access the global address server to obtain an address of the server in order to connect thereto:

"[In Fig. 1] the network 5 may be any local or global computer network For example, the network 5 may be the Internet" (Hanson, col. 5, lines 64-65)

Connection to the Internet inherently implies connection to the Domain Name System (DNS), which is a global address server

- Said server providing bulletin board data:

Hanson, col. 10, lines 23-27 (see full quote above)

- Said wireless devices of the family, each including a unique identification (ID), distinct from network addresses of said wireless devices reserved and used by the server to recognize said wireless devices belonging to the family: The devices form a group: *Hanson, col. 3, lines 49-50 (see full quote above)* Unique identification for participants is implied in a system in which a server manages session information for said participants: *Hanson, col. 6, line 65 — col. 7, line 2 (see full quote above); and*

- Wireless terminals include an a browser (Hanson, col. 5, lines 43-65 and col. 8, lines 37-58) including a configurable controlling functions and the wireless device use the ID to indicate that the wireless device belongs to the family or groups of wireless devices the ID being validated by an enabling service and a configuration tool in the server manages at least some of the configurable controlling functions of the browser of the wireless device (a high quality of service is provided to various classes of participants based upon their e-mail client application capabilities col. 6, lines 9-23 and col. 10, lines 9-35),
- Wherein IDs are reserved and used by the wireless devices belonging to the family or group of wireless devices and the family or group of the wireless devices is recognized in the server “ the server 6 can be configured to identify the capability of a participant. For example, the server 6 can be configured to automatically send the zaplet to the participant by recognizing the suffix "aol.com" in the participant's network address. Alternatively, the participant can specify which e-mail client to use by sending a request to the server 6” (col. 10, lines 9-35. See also Hanson, col. 2, lines 54-59).

In referring to claims 18 and 19,

- Said wireless devices are connected to said server through an access point: “[In Fig. 1] the network 5 may be any local or global computer network For example, the network 5 may be the Internet ... a wireless communications network” (Hanson, col. 5, lines 64-65),

An access point is a link from a wireless network to a wired network; connecting to an Internet provider from a wireless device inherently implies an access point

In referring to claim 21,

- Wireless terminals each with a unique identification (ID), distinct from network addresses of said wireless terminals, a gateway, an access point, and a server: “[In Fig. 1] the network 5 may be any local or global computer network For example, the network 5 may be the Internet ... a wireless communications network” (Hanson, col. 5, lines 64-65),

A wireless device that connects to an access point which is in turn connected to an Internet provider, inherently implies a gateway through which a server is accessed; a means to identify the terminal is inherent in a network system (Hanson, Fig. 1)

- A configuration tool in the server for managing at least some of configurable controlling functions of a browser from the terminal:

"The electronic medium may be configured using a MIME construct. The electronic medium may include a command identifying the dynamic or the static content. The electronic medium may be configured to display a plain text message corresponding to the dynamic content, when one of the content-types cannot support the dynamic content." (Hanson, col. 2, lines 54-59), a configurable electronic medium inherently implies a means to configure said medium

- IDs are reserved and used by terminals belonging to the same group, each group of a unique identification of the terminals is recognized in the same server to be used by the wireless terminals of the group:

Unique identification for participants is implied in a system in which a server manages session information for said participants: *Hanson, col. 6, line 65 – col. 7, line 2* (see full quote above)

In referring to claims 22, 32, and 33,

- A gateway coupled to the terminal for providing a wireless communication link to the terminal:

A wireless terminal that is connected to the Internet inherently implies a gateway/router coupled to said terminal

- A server coupled to the gateway for providing services and information management services to the terminal and providing:
Hanson, Fig. 1 shows a server 6 for providing services and information management services to the terminal 2
- A global unit coupled to the gateway for providing the address of the server, the global unit configured to initiates a request to the server in response to the activation of the wireless user terminals to establish a shared communication session: with the group of wireless user terminals that each include a unique identification (ID), distinct from

network addresses from said wireless user terminals, reserved and used by the server to recognize said wireless devices belonging to the same group or family “ the server 6 can be configured to identify the capability of a participant. For example, the server 6 can be configured to automatically send the zaplet to the participant by recognizing the suffix "aol.com" in the participant's network address. Alternatively, the participant can specify which e-mail client to use by sending a request to the server 6” (col. 10, lines 9-35. See also Hanson, col. 2, lines 54-59).

- Wireless terminals include an identifier and a browser (Hanson, col. 5, lines 43-65 and col. 8, lines 37-58) including a configurable controlling functions and with the identifier being used to indicate that the wireless device belongs to the family or groups of wireless devices validated by an enabling service and a configuration tool in the server for managing at least some of the configurable controlling functions of the browser of the wireless device (a high quality of service is provided to various classes of participants based upon their e-mail client application capabilities col. 6, lines 9-23 and col. 10, lines 9-35),
- Wherein IDs are reserved and used by the wireless devices belonging to the family or group of wireless devices and the family or group of the wireless devices is recognized in the server “ the server 6 can be configured to identify the capability of a participant. For example, the server 6 can be configured to automatically send the zaplet to the participant by recognizing the suffix "aol.com" in the participant's network address. Alternatively, the participant can specify which e-mail client to use by sending a request to the server 6” (col. 10, lines 9-35. See also Hanson, col. 2, lines 54-59).

In referring to claim 25,

- Each terminal includes a unique identification (ID), the IDs being reserved and used by terminals belonging to the same group; each of the unique identification of the terminals being recognized in the same server to be used by the terminals of the group:
Each participant has network address which is used to recognize devices belonging to the same group: *"The server 6 then sends an e-mail message to the participants listed*

in the network address field 103 to notify the receiving participants that a zaplet process has been initiated. " (Hanson, col. 9, lines 8-11)

In referring to claim 26,

- Each terminal obtains an address of the server to which the terminal is connected, allowing the terminal to access services or retrieve information from the server or the Internet:

Hanson, Fig. 1 shows the terminals connect to the same server 6, it is inherently implied that the terminals will obtain the address of the server 6 in order to connect to said server 6

In referring to claim 27, when a participant updates a dynamic section of the notice board, the other participants automatically get it when they view the notice board

In regard to claim 35, Hanson teaches a browser configured to receive a URL from a user and in response to the received URL, the browser is further configured to retrieve the bulletin board data for the server (col. 7, lines 6-25).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been **obvious** at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hanson. Although Hanson shows substantial features of the claimed invention particularly the system according to claim 3 (see 102 rejection above), Hanson does not explicitly show at least one wireless device is connected through a second access point, a second service provider, and the

Art Unit: 2153

Internet. Nonetheless this feature is well known in the art and would have been an obvious modification to the system disclosed by Hanson as evidenced by the background of Hanson.

A person, of ordinary skill in the art would have readily recognized the desirability and advantages of implementing the system of Hanson so as to allow the wireless devices to connect through different access points and service providers, in order to facilitate users regardless of physical location.

6. Claims 6 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hanson in view of Mainwaring et al. (U.S. Patent Number 6,351,271, hereinafter "Mainwaring").

In referring to claim 6, although Hanson shows substantial features of the claimed invention, including the system of claim 1 (see 102 rejection above), Hanson does not show resembling a physical bulletin board having notes attached thereto. Nonetheless this feature is well known in the art and would have been an obvious addition to the system disclosed by Hanson, as evidenced by Mainwaring.

In analogous art, Mainwaring discloses a¹ method and apparatus for sending and receiving lightweight messages. Mainwaring shows bulletin board data is displayed to resemble a physical bulletin board having notes attached thereto: *"FIG. 13 is a screen shot of the touch screen display 156 of a ScanBoard IDU 152. The user interface resembles a bulletin board comprising images that have been scanned into the system. The appliance's display can be in one of two states: a shared view of a group area or a local view of a single item. The shared view consists of a "pile" of potentially overlapping items, displayed in a photo-reduced, "thumbnail" form. If two items overlap, the one at the higher level occludes the one at the lower level. All users in a group area share the same shared view. When an item is displayed with a local view, the screen shows only that item, in photo-magnified form."* (Mainwaring, col. 8, lines 20-31)

Given these teachings, a person of ordinary skill in the art would have readily recognized the desirability and advantages of modifying the system of Hanson so as to display the notes as if they were on a physical bulletin board, such as taught by Mainwaring, in order to provide a user friendly display of the notes, emulating a bulletin board that is familiar to the user(s).

In referring to claim 9, Hanson in view of Mainwaring shows,

Said display is changed to introduce a new note which is received from a service, that is shared ,with the each of said plurality of wireless devices having equal access to the service:

Hanson, Fig. 5 shows the display **200** has a Dynamic content region 210, which is updated when new notes are introduced

7. Claims 7, 12, and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hanson in view of Mainwaring and in further view of Maurille (U.S. Patent Number 6,484,196, hereinafter "Maurille").

In referring to claim 7, although Hanson in view of Mainwaring shows substantial features of the claimed invention, including the system of claim 6 (see 103 above), Hanson in view of Mainwaring does not show notes of different colors and indicia indicating the source of said notes. Nonetheless this feature is well known in the art and would have been an obvious modification to the system disclosed by Hanson in view of Mainwaring as evidenced by Maurille.

In analogous art, Maurille discloses and Internet messaging system and method for use in computer networks. Maurille shows:

- Different colors for the notes: "To assist user recognition of the different message levels and the status of those messages (read, unread, etc.), the displayed embodiment employs color and icons in addition to indentation ...In the illustrated embodiment the information line of incoming messages is underlined with different colors depending on whether the message has been responded to (shown in purple) or need to be responded to (shown in

blue). Alternatively, the information line of all incoming messages can be shown in one color (e.g., blue) and with underlining only when the incoming message has not yet been responded to. Note that these display features (indentation, color, icons) are not required by the present invention but are niceties to assist users in navigating the open, threaded communication board 400. " (Maurille, col. 13, lines 11-28)

- Indicia indicating the source of the notes:

Figure 4B, element 245, shows the sender name for a message

Given these teachings, a person of ordinary skill in the art would have readily recognized the desirability and advantages of modifying the system of Hanson in view of Mainwaring so as to employ different colors such as taught by Maurille, in order to assist users in navigating the communication board.

In referring to claims 12 and 13, although Hanson shows substantial features of the claimed invention, including the system of claim 11 (see 102 rejection above), Hanson does not show, resembling a physical bulletin board having notes attached thereto. Nonetheless this feature is well known in the art and would have been an obvious addition to the system disclosed by Hanson as evidenced by Mainwaring.

In analogous art, Mainwaring discloses a method and apparatus for sending and receiving lightweight messages. Mainwaring shows bulletin board data is displayed to resemble a physical bulletin board having notes attached thereto: *Mainwaring, col. 8, lines 20-31* (see full quote above)

Given these teachings, a person of ordinary skill in the art would have readily recognized the desirability and advantages of modifying the system of Hanson so as to display the notes as if they were on a physical bulletin board, such as taught by Mainwaring, in order to provide a user friendly display of the notes, emulating a bulletin board that is familiar to the user(s).

Although Hanson in view of Mainwaring shows substantial features of the claimed invention, Hanson in view of Mainwaring does not show notes of different colors and indicia indicating the source of said notes. Nonetheless this feature is well known in the art and would have been an obvious modification to the system disclosed by Hanson in view of Mainwaring as evidenced by Maurille.

Art Unit: 2153

In analogous art, Maurille discloses an Internet messaging system and method for use in computer networks. Maurille shows:

- Different colors for the notes:
Maurille, col. 13, lines 11-28 (see full quote above)
- Indicia indicating the source of the notes:
Figure 4B, element 245, shows the sender name for a message.

Given these teachings, a person of ordinary skill in the art would have readily recognized the desirability and advantages of modifying the system of Hanson in view of Mainwaring so as to employ different colors such as taught by Maurille, in order to assist users in navigating the communication board.

8. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hanson in view of Mainwaring and in further view of Carau (U.S. Patent Number 6,266,048, hereinafter "Carau"). Although Hanson in view of Mainwaring shows substantial features of the claimed invention, including the system of claim 6 (see 103 rejection above), Hanson in view of Mainwaring does not show the display changing to introduce a new note, said note being typed on a virtual keyboard. Nonetheless this feature is well known in the art and would have been an obvious modification to the system disclosed by Hanson in view of Mainwaring as evidenced by Carau.

In analogous art, Carau discloses a virtual display and keyboard for computer creating by projecting virtual keyboard pattern of keys onto flat, light colored surface and embodying remote sensing for determining which virtual keys are selected. Carau shows:

- The display changing to introduce a new note (The viewing of a note from a BBS inherently implies a display change, in order to view said note)
- A virtual keyboard for inputting text (Figures 1-3 show the virtual keyboard)

Given these teachings, a person of ordinary skill in the art would have readily recognized the desirability and advantages of modifying the device of Hanson in view of Mainwaring so as to allow notes to be typed on a virtual keyboard, such as taught by Carau, in order to overcome the size limitations of portable wireless devices while keeping the functionality of

Art Unit: 2153

a full sized keyboard.

9. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hanson in view of Patil (U.S. Patent Number 6,625,460, hereinafter "Patil"). Although Hanson shows substantial features of the claimed invention, Hanson does not show displaying indicia that indicates notes were sent using short message service. Nonetheless this feature is well known in the art and would have been an obvious modification to the system disclosed by Hanson as evidenced by Patil.

In analogous art, Patil discloses a unified messaging protocol using SMS. Patil shows said notes were sent using short message service: *"The user is provided with the capability to compose SMS messages and with the capability to compose at least one distribution list for those messages."* (Patil, col. 2, lines 25-27)

Given these teachings, a person of ordinary skill in the art would have readily recognized the desirability and advantages of modifying the system of Hanson so as to display indicia that indicates notes were sent using short message service, such as taught by Patil, in order to allow the recipient to know what type of device sent the message.

10. Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hanson in view of Carau. Although Nishino shows substantial features of the claimed invention, including the system of claim 11 (see 102 rejection above), Hanson does not show notes being typed on a virtual keyboard. Nonetheless this feature is well known in the art and would have been an obvious modification to the system disclosed by Hanson as evidenced by Carau.

In analogous art, Carau discloses a virtual display and keyboard for computer creating by projecting virtual keyboard pattern of keys onto flat, light colored surface and embodying remote sensing for determining which virtual keys are selected. Carau shows a virtual keyboard for inputting text (Figures 1-3 show the virtual keyboard).

. Given these teachings, a person of ordinary skill in the art would have readily recognized the desirability and advantages of modifying the device of Hanson so as to allow notes to be typed on a virtual keyboard, such as taught by Carau, in order to overcome the size limitations of portable wireless devices while keeping the functionality of a full sized keyboard.

11. Claims 15, 17, 28, and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hanson in view of Maurille.

In referring to claim 15, although Hanson shows substantial features of the claimed invention, including the system of claim 11 (see 102 rejection above), Hanson does not explicitly show the bulletin board data including a list view of all messages. Nonetheless this feature is well known in the art and would have been an obvious modification to the system disclosed by Hanson as evidenced by Maurille.

In analogous art, Maurille discloses an Internet messaging system and method for use in computer networks. Maurille shows a list view of messages: Maurille, Fig. 4B shows a list view of messages in a messaging system.

Given these teachings, a person of ordinary skill in the art would have readily recognized the desirability and advantages of modifying the system of Hanson so as to show the messages in a list view, such as taught by Maurille, in order to view the messages in chronological order.

In referring to claim 17, although Hanson shows substantial features of the claimed invention including the system of claim 16 (see 102 rejection above), Hanson does not show notes of different colors and indicia indicating the source of said notes. Nonetheless this feature is well known in the art and would have been an obvious modification to the system disclosed by Hanson as evidenced by Maurille.

In analogous art, Maurille discloses an Internet messaging system and method for use in computer networks. Maurille shows:

- Different colors for the notes:

Maurille, col. 13, lines 11-28 (see full quote above)

- Indicia indicating the source of the notes:

Figure 4B, element 245, shows the sender name for a message

Given these teachings, a person of ordinary skill in the art would have readily recognized the desirability and advantages of modifying the system of Hanson so as to employ different colors such as taught by Maurille, in order to assist users in navigating the communication board.

In referring to claim 28, although Hanson shows substantial features of the claimed invention including the system of claim 22 (see 102 rejection above), Hanson does not show notes of different colors and indicia to help identify various parameters. Nonetheless this feature is well known in the art and would have been an obvious modification to the system disclosed by Hanson as evidenced by Maurille.

In analogous art, Maurille discloses an Internet messaging system and method for use in computer networks. Maurille shows different colors for the notes: *Maurille, col. 13, lines 11-28* (see full quote above), and indicia indicating the source of the notes: Figure 4B, element 245, shows the sender name for a message

Given these teachings, a person of ordinary skill in the art would have readily recognized the desirability and advantages of modifying the system of Hanson so as to use various colors and indicia to help identify various parameters such as taught by Maurille, in order to assist users in navigating the communication board.

In referring to claim 29, although Hanson in view of Maurille shows substantial features of the claimed invention, Hanson in view of Maurille does not explicitly show three different indicia are displayed in an upper left hand corner of the note to indicate whether this is a note placed there manually by one of the terminals in the group, as indicated by a pencil, whether it is a note that is generated automatically by a calendar function as indicated by a small calendar, or whether this is a note generated by a short message service (SMS) of the terminal. Nonetheless this would have been an obvious design choice for the system disclosed by Hanson in view of Maurille.

The system of shows the use of icons to assist the user in recognizing the different message levels and status of the messages: *"To assist user recognition of the different message levels and the status of those messages (read, unread, etc.), the displayed embodiment employs color and icons in addition to indentation."* (Maurille, col. 13, lines 11-14)

A person of ordinary skill in the art would have readily recognized the desirability and advantages of the design choice of implementing the system of Hanson in view of Maurille so as to display three different indicia in an upper left hand corner of the note to indicate whether this is a note placed there manually by one of the terminals in the group, as indicated by a pencil, whether it is a note that is generated automatically by a calendar function as indicated by a small

Art Unit: 2153

calendar, or whether this is a note generated by a short message service (SMS) of the terminal, so as to *"assist user recognition of the different message levels and the status of those messages."*

In referring to claim 30, Hanson in view of Maurille shows,

- A date and time are generated indicating when the notes were formulated:

Maurille, Fig. 4B shows a date and time are generated when the note was formulated (242)

12. Claim 23 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hanson in view of Dynarski et al. (U.S. Patent Number 6,272,129, hereinafter Dynarski"). Hanson shows substantial features of the claimed invention, including:

- The system of claim 22 (see 102 rejection above)
- The terminal receiving downloaded configuration information of services after authentication making the terminal ready to be used:

Hanson, Fig. 5 shows a configuration of a message board that is downloaded to the terminal

However, Hanson does not explicitly show authenticating the wireless devices. Nonetheless this feature is well known in the art and would have been an obvious addition to the system disclosed by Hanson as evidenced by Dynarski.

In analogous art, Dynarski discloses dynamic allocation of wireless mobile nodes over an Internet protocol (IP) network. Dynarski shows authenticating the wireless devices: *"An example of such an authentication server is a RADIUS server (a known device) providing accounting, authorization and authentication functions for a plurality of mobile users. The Access Request message includes a destination IP address for the wireless device that was included in the IP packet from the terminal on the network "* (Dynarski, col. 2, lines 55-61)

Given these teachings, a person of ordinary skill in the art would have readily recognized the desirability and advantages of modifying the system of Hanson so as to authenticate the wireless devices, such as taught by Dynarski, in order to provide a level of security.

Art Unit: 2153

13. Claims 31 and 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hanson in view of Maurille and in further view of Tognazzini (U.S. Patent Number 5,790,974, hereinafter "Tognazzini"). Although Hanson shows substantial features of the claimed invention, Hanson does not show notes are automatically generated by a calendar as a reminder. Nonetheless this feature is well known in the art and would have been an obvious addition to the system disclosed by Hanson as evidenced by Tognazzini.

In analogous art, Tognazzini discloses portable calendaring device having perceptual agent managing calendar entries. Tognazzini shows messages are automatically generated by a calendar as a reminder: *"If the detected event is not traffic data, the agent 16b determines in step 160 whether the detected event is a user, message, for example a reminder message initiated by the portable calendar stored in the portable calendar memory"* (Tognazzini, col. 12, lines 18-21). Given these teachings, a person of ordinary skill in the art would have readily recognized the desirability and advantages of modifying the system of Hanson so as to be automatically generate notes by a calendar, such as taught by Tognazzini, in order to provide a reminder to the users.

Conclusion

ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

The prior made of record and not relied upon is considered pertinent to applicant's disclosure.

Art Unit: 2153

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yasin Barqadle whose telephone number is 571-272-3947. The examiner can normally be reached on 9:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenn Burgess can be reached on 571-272-3949. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9306 for regular communications and 703-746-7238 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either private PAIR or public PAIR system. Status information for unpublished applications is available through private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

YB

Art Unit 2153

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